

Iran Section

Hadi Moradi

List the activities carried out to foster relations with Industry and the results obtained. List the initiatives planned during the next 6 months and their expected outcomes. How can the Region help your Section in your industry-related activities?

We have done the following to improve our relationship with industry:

- 1) Introducing two new awards titled as "The Industrial Veteran" and the "Young Entrepreneurship" awards.
- 2) We conducted several seminars by our industrial relation committee to get the views of industrial people to our members.
- 3) We have introduced IEEE through a famous telecommunication magazine in Iran. We hope that people from industry better understand the importance of IEEE and increase interaction.
- 4) Running our new website for internships and job search

Our plan for the next 6 months is:

- 1) More webinars by the section using industry speakers and speakers from academia
- 2) Helping industrial sectors to evaluate the market and produce whitepapers regarding the TRL and MRL of technologies in their sector.
- 3) Further advertisement on our internship and job search websites.

List the activities addressed to Students and/or Young Professionals and the results obtained. List the initiatives planned during the next 6 months and their expected outcomes. How can the Region help in your students and YP-related activities?

- 1) We started several activities on conducting webinars. We have conducted over 10 webinars during the past 6 months with over 1000 participants.
- 2) 3 webinars were dedicated to the IEEE president elect candidates in which many students and young professionals attended and interacted with these candidates.
 - It should be mentioned that these webinars were conducted jointly with UAE and Oman sections which was one of the first joint activities in the region.
- 3) We started the sister branch idea to start joint activities between our student branches and the branches in Turkey. Up to this point, 4 branches have started working together. We hope to get good results out of this.
- 4) We started online meetings with student branch counselors. We have had two meetings with suggestions coming from the counselors. The two suggestions were:
 - Starting local members since students cannot afford paying for the IEEE membership.
 - Paying for the awards received by our teams/students in IEEE competitions since IEEE does not pay our members due to the sanctions. Thus, we have allocated budget to fund, at least, 50% of the awards prohibited from our members.

In the next 6 months, we will continue the above activities, especially:

- 1) Webinars;
- 2) Sister branches;
- 3) Meeting with counselors for improving student branches.

R8 can help in the following forms:

- 1) Convincing IEEE to reduce membership for our members. It is almost impossible for the majority of our members to pay for the membership.
- 2) Work with IEEE to give the awards won by our members.
- 3) Help us with introducing speakers to provide constructive and informative talks for our members.
- 4) Help our students and YP to get internships/sabbatical/short-long term visits at companies and universities.

List the activities carried out to retain and recruit members and the results obtained. List the initiatives planned during the next 6 months and their expected outcomes. How can the Region help in your membership-related activities?

- 1) We tried to convince IEEE to reduce membership for our members. Due to sudden exchange rate change between Iranian rials and other currencies, the cost of membership for our members has gone up 3 times compared to a year ago (and 5 times compared to 3 years ago).
- 2) We are trying to introduce local membership to bring students and professionals closer to IEEE to be able to convince them to join IEEE.
- 3) We have started MOUs with companies to give discounts to our members.
- 4) The student branches have become more active to recruit members.

For the next 6 months, we would have a hard time keeping the members. Even long-term members are thinking to not renew or renew at the lowest price. R8 can help us by convincing IEEE to understand our difficult situation.

List the activities intended to support chapters, affinity groups, and student branches and the results obtained. List the related initiatives planned during the next 6 months and their expected outcomes. How can the Region help in your support to chapters, affinity groups, and student branches?

All chapters, affinity groups, and student branches have allocated budget to support their activities. Each year, all the student branches are evaluated and based on their performance, a budget is allocated for their activities. The student branch budgets and the student meetings' budget are the biggest part of our budget annually.

To encourage their activities, we have designed several awards. Our plan is to announce the award procedure earlier this year so the members would be more encouraged. The newly designed competitions are also a way to help the student branches to become more active.

We conducted three webinars with UAE and Oman sections. We hope this interaction would go further in the future to improve the three sections. This would help the students learn more about each other and transfer what they have learned to each other.

Since the start of COVID-19 pandemic, the members have been very active in fighting the virus and informing the public. Two activities, i.e. the open source ventilator activity and the new system for COVID-19 screening, have been reported through IEEE Spectrum and IEEE Institute.

R8 can help us with providing more interaction between these entities. The interaction between these entities, from different sections, can help to better transfer the experiences

Finally, we are celebrating our 50th anniversary in 2020. Thus, we want to highlight IEEE Iran section's importance and history in our country.

Challenges (with a focus on what support is required from Region 8)

Our main challenge is the effect of sanctions. Beside the financial effect, it limit all our activities and discourages our members to participate in IEEE



Wireless AI: A New Sixth Sense to Deciphering our World

Prof .K .J .Ray Liu

Distinguished University Professor
& Distinguished Scholar-Teacher
University of Maryland

IEEE Vice President, Technical Activities (2019)
Division IX Director of IEEE Board of Directors
(2016-17), President of IEEE Signal Processing
Society (2012-13)



Thu, 3 Sep, 2020
13 Shahrivar, 1399
17:00 IRST (GMT +4:30)

What smart impact will future 5G and IoT bring to our lives? Many may wonder, and even speculate, but do we really know? With more and more bandwidth readily available for the next generation of wireless applications, many more smart applications/services unimaginable today may be possible. In this talk, we will show that with more bandwidth, one can see many multi-paths, which can serve as hundreds of *virtual antennas* that can be leveraged as new degrees of freedom for smart life. Together with the fundamental physical principle of time reversal to focus energy to some specific positions and the use of machine learning, a revolutionary wireless AI platform can be built to enable many cutting-edge IoT applications that have been envisioned for a long time, but have never been achieved.



Register bit.ly/WebinarIEEEIran

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* This talk was meant to be arranged sooner in August, yet due to miscommunications by the organizing team it was delayed till now.



25 August 2020

IRST: 17:00 (GMT: +4:30)

4 shahrivar 1399

The Smart City Building Blocks and Their Synergy with Smart Villages



Prof. SAIFUR RAHMAN

Joseph Loring Professor of Electrical Engineering
Virginia Tech Advanced Research Institute, USA.
President, IEEE Power & Energy Society 2018 & 2019

Register <https://bit.ly/IranIEEEsection>

A smart city relies on widely distributed smart devices to monitor the urban environment in real-time, collects information for intelligent decision making, and facilitates various services to improve the quality of urban living. The distributed network of intelligent sensor nodes, as well as data centers/clouds where sensor data are stored and shared, constitutes a smart city infrastructure. Participatory sensing plays an indispensable role in emerging initiatives of a smart city, which retrieves sensor data from groups of people or communities. The proliferation of personal mobile devices and development of online social networks make participatory sensing viable at a large scale but introduce many open problems at the same time. Smart cities address urban challenges such as pollution, energy efficiency, security, parking, traffic, transportation, and others by utilizing advanced technologies in data gathering and communications interconnectivity via the Internet.



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Engineering The Future In The Post-COVID Era

OUR GUEST



Prof. S. K. Ramesh

2016-17 IEEE Vice President Educational Activities
Director AIMS² Program, and Professor of
Electrical and Computer Engineering
California State University, Northridge, USA



23rd August 2020
2nd Shahrivar




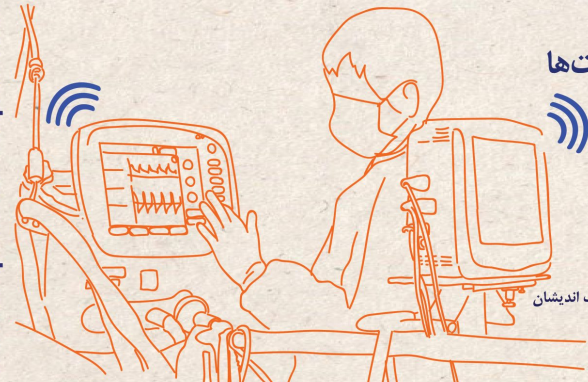
IRST: 19:00 - 20:30
(GMT: +4:30)



Register: bit.ly/IEEEIransection

مدیر برنامه:
مهندس محمد طهماسبی،
مشاور ارشد تجهیزات پزشکی
زمان: یکشنبه ۱۱ آبان ۱۳۹۹
ساعت: ۱۵ الی ۱۶:۳۰
لینک ثبت نام:
sarveentech.ir/TechForum





Technopreneurship Forum

بیمارستان هوشمند:
فناوری های کلیدی و فرصت ها
Smart Hospital:
Enabling technologies and opportunities

وبینار و پنل تخصصی فن آفرینی
سخنران کلیدی:
دکتر علیرضا طلوع کوروشی، مهندسین مشاور کارآمد
اعضای پنل:
دکتر کمال الدین ستاره‌دان، دانشگاه تهران
مهندس علیرضا سلطان رحمتی، بیمارستان بوعلی سینا
مهندس محمود رضا محمد قلیزاده، مهندسان مشاور ژرف اندیشان